

## BIOGRAPHICAL SKETCH

**NAME:** Michael DeVito

**POSITION TITLE:** Branch Chief

### EDUCATION/TRAINING

Institution	Degree	Year	Field of Study
Drew University	B.S.	1983	Chemistry
Rutgers University	M.S.	1988	Toxicology
Rutgers University	Ph.D.	1992	Toxicology

### PROFESSIONAL EXPERIENCE:

2002-present      Branch Chief, PKB/NHEERL/ORD/ USEPA  
1995-2002        Toxicologist, PKB/NHEERL/ORD/ USEPA  
1992-1994        Post doctoral Fellow, UNC-CH

### PROFESSIONAL SOCIETIES:

Society of Toxicology and North Carolina Society of Toxicology  
American Association for the Advancement of Science

### SELECTED AWARDS AND HONORS: (From 1998 to present)

USEPA Science Achievement Award USEPA, 2003  
USEPA Scientific and Technological Achievement Award, Honorable Mention, 1999, 2001  
USEPA Scientific and Technological Achievement Award, Level III, 1998

### INVITED LECTURES/SYMPOSIA: (Since 2001)

Screening for Thyroid Hormone Disruptors, presented at SCOPE/IUPAC International Symposium on Endocrine Active Substances, November 2002, Yokohama Japan.  
Brominated Flame Retardants: Emerging Contaminants. Great Lakes Binational Toxics Strategy Annual meeting, Windsor Canada, May 2002.  
The USEPA Dioxin Reassessment, Presented at the The American Public Health Association's 129<sup>th</sup> Annual Meeting, November, 2001, Atlanta Ga.  
The Use of Body Burdens as a Dose Metric and Estimates of Margins of Exposures for Dioxins and Non-Dioxin-Like PCBs. Presented at The Ministry of the Environment, Tokyo Japan, September 18, 2001.  
Non-cancer Dose Response Relationships for Dioxin Using BMDS Approach. The Ministry of the Environment, Tokyo Japan, September, 2001.  
Influence Of Environmental Chemicals On Thyroid Hormones. NIES, Tsukuba Japan, September, 2001.  
Effects of Brominated Diphenyl Ethers on Thyroid Hormones in a Short-term Screen and in Developmental Studies. *21th Symposium on Halogenated Environmental Organic Pollutants*", 2001, Kyongju Korea.

### ASSISTANCE/LEADERSHIP PROVIDED TO THE SCIENTIFIC COMMUNITY:

North Carolina SOT Councilor 2002-2003  
Editorial Board: Chemosphere (2001-2002)  
Contract Review Panel for National Toxicology Program, NIEHS, 2001.  
Reviewer, Northern Contaminants Program Proposal Peer Reviewer, Environment Canada, 1999 and 2001.  
Reviewer, MRC Institute for Environment and Health document on *Soil Standards for Dioxins*, 2000.  
Michigan Environmental Science Board's Children's Standards Panel, 1999.  
World Health Organization, Scientific and Technical Evaluation Workshop on Persistent Manufactured Chemicals for Non-pesticide Applications and Persistent By-products of Industrial and Combustion Processes, Geneva Switzerland, January 11-15, 1999.

#### **ASSISTANCE/LEADERSHIP PROVIDED TO THE AGENCY:**

Dioxin Reassessment: Primary author: Toxicity Equivalence Factors (TEF) for Dioxin and Related Compounds. In Exposure and Human Health Reassessment of 2,3,7,8-Tetrachlorodibenzo-*p*-Dioxin (TCDD) and Related Compounds Part II: Health Assessment for 2,3,7,8-Tetrachlorodibenzo-*p*-dioxin (TCDD) and Related Compounds. EPA/600/P-00/001Be. Secondary Author on 3 other chapters.

Framework for Application of the Toxicity Equivalence Methodology for Polychlorinated Dioxins, Furans and Biphenyls in Ecological Risk Assessment" Risk Forum Report (Contributing Author).

Proteomics Coordinator, NHEERL Genomics and Proteomics Committee (2002 - present)

Endocrine Implementation Planning Committee, 2000-present

Organizing committee, 5<sup>th</sup> NHEERL Symposium, June 2000,

Organizing committee, NHEERL Synergy workshop on extrapolation, 1999.

Organizing Committee, *Workshop on the application of 2,3,7,8-TCDD toxicity equivalency factors to fish and wildlife*. January 1998, Chicago IL.

#### **PUBLICATIONS (From January 1, 1998 to present, 15 out of a total of 42 publications):**

1. Santostefano, MJ, Wang, X., Richardson, VM, Ross, DG, DeVito, MJ, and Birnbaum, LS. A pharmacodynamic analysis of TCDD-induced cytochrome P-450 gene expression in multiple tissues: Dose- and Time-dependent effects. *Toxicol. Appl. Pharmacol.* 151, 294-310, 1998.
2. Hurst CH, Abbott BD, DeVito MJ, Birnbaum LS. 2,3,7,8-Tetrachlorodibenzo-*p*-dioxin in pregnant Long Evans rats: disposition to maternal and embryo/fetal tissues. *Toxicol. Sci.* 45(2):129-36, 1998.
3. DeVito, MJ, Dupuy, A, Ferrario, J, McDaniels, D., Ross, DG, Birnbaum, LS. Dose-response relationships for disposition of polyhalogenated dibenzo-*p*-dioxin, dibenzofurans and biphenyls following subchronic exposure in mice. *Toxicol. Sci* 46(2):223-34, 1998.
4. DeVito, MJ et al., Workshop Report "Screening methods for chemicals that alter thyroid hormone action, function and homeostasis". *Environ Health Persp* 107:407-414, 1999.
5. Hurst HH, DeVito MJ, Setzer RW, and Birnbaum, LS. Acute administration of 2,3,7,8-Tetrachlorodibenzo-*p*-dioxin (TCDD) in pregnant Long Evans rats: Association of measured tissue concentrations with developmental effects. *Toxicol. Sci.* 53(2):411-20, 2000.
6. Wang X, Santostefano, MJ, DeVito, MJ, and Birnbaum, LS. Extrapolation of a PBPK model for dioxin across dosage regimen, gender, strain and species. *Toxicol Sci.* 56(1):49-60, 2000.
7. DeVito, MJ, Diliberto, JJ, Ross, DG, Menache, MG, and Birnbaum, LS. Dose-response relationships for polychlorinated biphenyls following subchronic treatment in mice: CYP1A1 and CYP1A2 enzyme activity in liver, lung and skin. *Toxicol Appl. Pharmacol.* 167(3):157-72, 2000.
8. Hurst, CH, DeVito, MJ, Birnbaum, LS. Tissue disposition of 2,3,7,8-tetrachlorodibenzo-*p*-dioxin (TCDD) in maternal and developing long evans rats following subchronic exposure. *Toxicol Sci.* 57(2):275-83, 2000.
9. Johnson, CW, Williams, WH, Copeland, CB, DeVito, MJ, and Smialowicz, RJ. Sensitivity of the SRBC PFC Assay vs ELISA for Detection of Immunosuppression by TCDD and TCDD-Like Congeners. *Toxicology* 156:1-11, 2000.
10. Zhou, T, Ross, DG, DeVito, MJ, and Crofton, KM. Effects of short-term in vivo exposures to polybrominated diphenyl ethers on thyroid hormones and hepatic enzymatic activities in weanling rats. *Toxicol Sci.* 61(1):76-82, 2001.
11. DeVito, MJ, and Schecter A. Estimates of TCDD exposure through the use of tampons and diapers. *Environ Health Persp.*, *Environ Health Perspect* 110:23-28 2002.
12. Leavens, TL, Sparrow, BR, and DeVito, MJ. Antiandrogenic effects and disposition of 2,2-bis-(4-chlorophenyl)-1,1-dichloroethylene (p,p'-DDE) in adult male rats. *Toxicology* 2002 May 24;174(2):69-78..
13. Zhou, T, Taylor, MM, DeVito, MJ, and Crofton, KM. Developmental exposures to brominated diphenyl ethers results in thyroid hormone disruption. *Toxicol. Sci.* 2002 Mar;66(1):105-16
14. Craft E, DeVito, MJ and Crofton, KM. Comparative responsiveness of hepatic enzyme induction and hypothyroxenemia in long-evans rats versus c57bl/6j mice exposed to TCDD-like and phenobarbital-like polychlorinated biphenyl (PCB) congeners. *Toxicol Sci* 2002 Aug;68(2):372-80.
15. Brown DJ, Overmire IV, Goeyens, L, Denison MS, DeVito, MJ and Clarkm GC. Analysis of Ah receptor pathway activation by brominated flame retardants. *Chemosphere* (in press).